

## **ABSTRACT OF THE DISCLOSURE**

An RFID sensor system and method is disclosed. An RFID sensor system includes a conducting path having first and second conductors, and one or more RFID sensing transceivers spatially-distributed along the conducting path and capacitively-coupled to the first and second conductors. The system further includes a controller that provides an AC signal on the conducting path, and receives signals from the one or more RFID sensing transceivers. The conducting path and RFID sensing transceivers can be formed in a flexible substrate and mated together.